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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/660,690

09/11/2003

Young-Bok Song

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34610 7590 09/24/2007
KED & ASSOCIATES, LLP
P.O. Box 221200
Chantilly, VA 20153-1200

EXAMINER

SAID, MANSOUR M

ART UNIT

PAPER NUMBER

2629

MAIL DATE

DELIVERY MODE

09/24/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/660,690

Applicant(s)

SONG ET AL.

Examiner

MANSOUR M. SAID

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 and 17-48 is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 9/11/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. This office action in responds to the amendment filed on May 17, 2007.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 11-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 11-16, the claimed limitations “prescribed number of area” is not clear to the examiner. Explanation is needed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. **Claims 11-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Saegusa (5,475,448).**

As to claim 11, as best understood, Saegusa teaches a method of driving a plasma display panel (figure 1) having a tri-electrode structure (figures 1-2 and column 2, lines 40-65 and column 3, lines 1-67) comprising driving the tri-electrode structure based on division of a field into a prescribed number of areas (figures 1-2 and column 2, lines 40-65 and column 3, lines 1-67) , wherein each area includes at least eight sub-fields (figures 1-2 and column 2, lines 40-65 and column 3, lines 1-67).

As to claim 12, as best understood, Saegusa teaches wherein the prescribed number of areas at least 2 (figures 1-2 and column 2, lines 1-65 and column 3, lines 1-67).

As to claim 13, as best understood, Saegusa teaches wherein the prescribed number of areas at least 4 (figures 1-2 and column 2, lines 1-65 and column 3, lines 1-67).

As to claim 14, as best understood wherein the prescribed number of areas equals $N \cdot P$, where N is number of blocks and P is $M \cdot a$ prescribed factor, M being a number of scan pulses in an address cycle and the prescribed factor being a natural number for increasing the number of scan pulses in the address cycle and the natural number being equal to at least one (figures 1-2 and column 2, lines 1-65 and column 3, lines 1-67).

As to claim 15, Saegusa teaches a method of driving a plasma (figures 1-2), comprising dividing a field at least two area (first area, (odd row)) and second area, (even row)) (figure 2); and driving each of the at least two areas based on a prescribed number of sub-fields SF_n , the prescribed number of sub-fields including a scan concentrated period (sub-fields arranged in the order as showing in figure 2 (odd rows during subfields with weights 8,4,2,1 ... length fields $1/16F$ and, even rows during subfields with weights 1,2,4,8 ... 32, length fields $1/16F$ are consider as concentrated period (see figure 2 and column 3, lines 1-20 and , wherein the scan.

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Concentrated period of the at least two areas does not overlap (area (first area, (odd row)) and second area, (even row)) (figure 2) and column 3, lines 1-67).

As to claim 16, Saegusa teaches wherein the prescribed number of sub-fields SFn is at least eight, and the scan concentrated period includes sub-fields 1 through 5 (figure 2) and column 3, lines 1-67).

Allowable Subject Matter

6. **Claims 1-10, and 17-48 allowed.**

Response to Arguments

7. Applicant's arguments with respect to claims 11-17 have been considered but are moot in view of the new ground(s) of rejection, since claims 11-17 are new.

8. **The Applicant is reminded that with accordance to 37 CFR 1.175(1) for any error corrected, which is not covered by the oath or declaration submitted under paragraph (a) of this section, applicant must submit a supplemental oath or declaration stating that every such error arose without any deceptive intention on the part of the applicant. Any supplemental oath or declaration required by this paragraph must be submitted before allowance and may be submitted with any amendment prior to allowance (see 37 CFR 1.175 (b)(1)(i).**

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Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mansour M. Said whose telephone number is 571-272-7679. The examiner can normally be reached on Monday through Thursday from 8:30-6:00 P.M. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: 571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mansour M. Said

9/15/07



ALEXANDER EISEN
SUPERVISORY PATENT EXAMINER